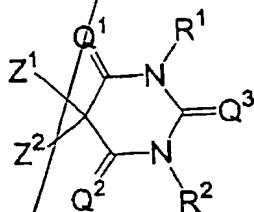


WHAT IS CLAIMED IS:

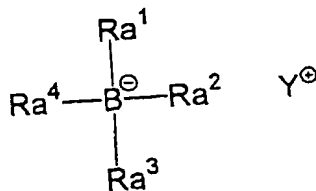
1. A photopolymerizable composition comprising a polymerizable compound having an ethylenically unsaturated bond, a compound represented by the following general formula (1), and an organoboron compound represented by the following general formula (A):

General formula (1)



wherein Q¹ to Q³ each independently represents an oxygen atom or a sulfur atom; R¹ and R² each independently represents a hydrogen atom, an aliphatic group, an aromatic group, or a heterocyclic group; and Z¹ and Z² each independently represents a substituent necessary for the compound represented by the general formula (1) to become a dye;

General formula (A)

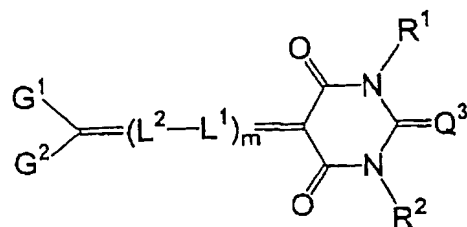


wherein R_a¹, R_a², and R_a³ each independently represents an aliphatic group, an aromatic group, a heterocyclic group, or -SiR_a⁵R_a⁶R_a⁷ where R_a⁵, R_a⁶, and R_a⁷ each independently represents

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an aliphatic group or an aromatic group; R_a^4 represents an aliphatic group; and Y^+ represents a group capable of forming a cation.

2. A photopolymerizable composition according to claim 1, wherein the compound represented by the general formula (1) is represented by the following general formula (4):

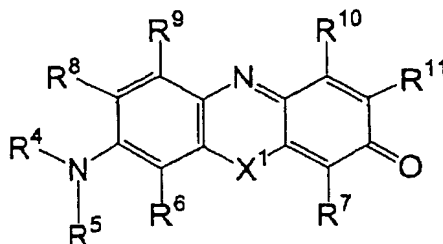
General formula (4)



wherein L^1 and L^2 each independently represents a methine group which may be substituted; m represents an integer of 0 to 3; and G^1 and G^2 each independently represents an electron-withdrawing group, or G^1 and G^2 join together to form an aromatic ring or a heterocycle.

3. A photopolymerizable composition comprising a polymerizable compound having an ethylenically unsaturated bond, a compound represented by the following general formula (2), and a compound capable of interacting with the compound represented by the following general formula (2) to generate a radical:

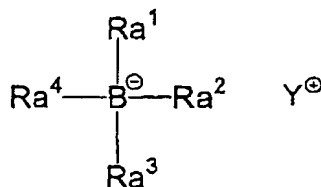
General formula (2)



wherein X^1 represents NR^{12} , a sulfur atom, a selenium atom, or an oxygen atom; R^4 , R^5 , and R^{12} each independently represents a hydrogen atom, an aliphatic group, an aromatic group, or a heterocyclic group; and R^6 , R^7 , R^8 , R^9 , R^{10} , and R^{11} each independently represents a hydrogen atom or a monovalent substituent, with the proviso that two or more selected from R^6 , R^7 , R^8 , R^9 , R^{10} , R^{11} , and R^{12} may join together to form a ring.

4. A photopolymerizable composition according to claim 3, wherein the compound capable of interacting with the compound represented by the general formula (2) to generate a radical is an organoboron compound represented by the following general formula (A):

General formula (A)

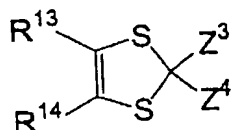


wherein R_a^1 , R_a^2 , and R_a^3 each independently represents an aliphatic group, an aromatic group, a heterocyclic group, or $-SiR_a^5R_a^6R_a^7$ where R_a^5 , R_a^6 , and R_a^7 each independently represents

an aliphatic group or an aromatic group; R_a^4 represents an aliphatic group; and Y^+ represents a group capable of forming a cation.

5. A photopolymerizable composition comprising a polymerizable compound having an ethylenically unsaturated bond, a compound represented by the following general formula (3), and a compound capable of interacting with the compound represented by the following general formula (3) to generate a radical:

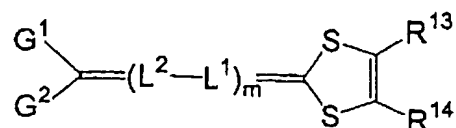
General formula (3)



wherein R^{13} and R^{14} each independently represents a hydrogen atom or a monovalent substituent; and Z^3 and Z^4 each independently represents a substituent necessary for the compound represented by the general formula (3) to become a dye.

6. A photopolymerizable composition according to claim 5, wherein the compound represented by the general formula (3) is represented by the following general formula (5):

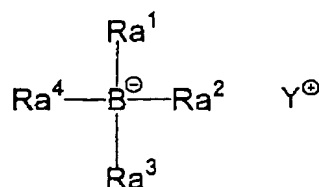
General formula (5)



wherein L^1 and L^2 each independently represents a methine group which may be substituted; m represents an integer of 0 to 3; and G^1 and G^2 each independently represents an electron-withdrawing group substituent or G^1 and G^2 join together to form an aromatic ring or a heterocycle.

7. A photopolymerizable composition according to claim 5, wherein the compound capable of interacting with the compound represented by the general formula (3) to generate a radical is an organoboron compound represented by the following general formula (A):

General formula (A)

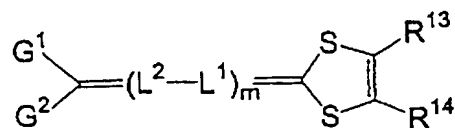


wherein Ra^1 , Ra^2 , and Ra^3 each independently represents an aliphatic group, an aromatic group, a heterocyclic group, or $-\text{SiRa}^5\text{Ra}^6\text{Ra}^7$ where Ra^5 , Ra^6 , and Ra^7 each independently represents an aliphatic group or an aromatic group; Ra^4 represents an aliphatic group; and Y^+ represents a group capable of forming

a cation.

8. A photopolymerizable composition according to claim 7, wherein the compound represented by the general formula (3) is represented by the following general formula (5):

General formula (5)



wherein L¹ and L² each independently represents a methine group which may be substituted; m represents an integer of 0 to 3; and G¹ and G² each independently represents an electron-withdrawing group or G¹ and G² join together to form an aromatic ring or a heterocycle.

9. A recording material comprising a support having disposed thereon a recording layer containing at least microcapsules enclosing a color-forming component and the photopolymerizable composition described in claim 1, wherein the polymerizable compound having an ethylenically unsaturated bond is a compound having a site which reacts with the color-forming component and causes the color-forming component to develop a color.

10. A recording material according to claim 9 having a multilayer structure produced by laminating at least three recording layers to one another, each recording layer being

sensitive to light of a different wave length, and each recording layer developing a different color when used for recording.

11. A recording material comprising a support having disposed thereon a recording layer containing at least microcapsules enclosing a color-forming component, a color-forming compound which reacts with the color-forming component to develop a color, and the photopolymerizable composition according to claim 1, wherein the polymerizable compound having an ethylenically unsaturated bond is a color formation inhibiting compound having a site which inhibits the reaction between the color-forming component and the color-forming compound.

12. A recording material according to claim 11 having a multilayer structure produced by laminating at least three recording layers to one another, each recording layer being sensitive to light of a different wave length, and each recording layer developing a different color when used for recording.

13. A recording material comprising a support having disposed thereon a recording layer containing at least microcapsules enclosing a color-forming component and the photopolymerizable composition according to claim 3, wherein the polymerizable compound having an ethylenically unsaturated bond is a compound having a site which reacts with the color-forming component and causes the color-forming component to develop a color.

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14. A recording material according to claim 13 having a multilayer structure produced by laminating at least three recording layers to one another, each recording layer being sensitive to light of a different wave length, and each recording layer developing a different color when used for recording.

15. A recording material comprising a support having disposed thereon a recording layer containing at least microcapsules enclosing a color-forming component, a color-forming compound which reacts with the color-forming component and causes the color-forming component to develop a color, and the photopolymerizable composition according to claim 3, wherein the polymerizable compound having an ethylenically unsaturated bond is a color formation inhibiting compound having a site which inhibits the reaction between the color-forming component and the color-forming compound.

16. A recording material according to claim 15 having a multilayer structure produced by laminating at least three recording layers to one another, each recording layer being sensitive to light of a different wave length, and each recording layer developing a different color when used for recording.

17. A recording material comprising a support having disposed thereon a recording layer containing at least microcapsules enclosing a color-forming component and the photopolymerizable composition according to claim 5, wherein

the polymerizable compound having an ethylenically unsaturated bond is a compound having a site which reacts with the color-forming component and causes the color-forming component to develop a color.

18. A recording material according to claim 17 having a multilayer structure produced by laminating at least three recording layers to one another, each recording layer being sensitive to light of a different wave length, and each recording layer developing a different color when used for recording.

19. A recording material comprising a support having disposed thereon a recording layer containing at least microcapsules enclosing a color-forming component, a color-forming compound which reacts with the color-forming component to develop a color, and the photopolymerizable composition according to claim 5, wherein the polymerizable compound having an ethylenically unsaturated bond is a color formation inhibiting compound having a site which inhibits the reaction between the color-forming component and the color-forming compound.

20. A recording material according to claim 19 having a multilayer structure produced by laminating at least three recording layers to one another, each recording layer being sensitive to light of a different wave length, and each recording layer developing a different color when used for recording.

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